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In re Klamath River (Klamath Tribe)

Hedden-Nicely

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Ex. 280-US-475

Unknown

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Stream: SF Sprague River
Site: 655
Date: 9/26/1990
Habitat: Run
Flow: Low

(1) Level Loop Survey (BM & HP)						
BM/HP (ft)	BS (ft)	HI (ft)	FS (ft)	Elev (ft)		
BM	0.35	100.35		100.00		
HP1			0.34	100.01		
HP2			0.34	100.01		
HP3			0.22	100.13		
TP						
HP3	0.71	100.83				
HP2			0.82	100.01		
HP1			0.82	100.01		
BM			0.83	100.00		

Comment:

Date: 4/5/1991
Habitat: Run
Flow: Mid

(1) Level Loop Survey						
BM/HP (ft)	BS (ft)	HI (ft)	FS (ft)	Elev (ft)		
BM	4.77	104.77		100.00		
HP1			4.76	100.01		
HP2			4.76	100.01		
HP3			4.62	100.15		
TP						
HP3	4.82	104.97				
HP2			4.95	100.02		
HP1			4.95	100.02		
BM			4.96	100.01		

Comment:

Date: 5/18/1993
Habitat: Run
Flow: High

(1) Level Loop Survey						
BM/HP (ft)	BS (ft)	HI (ft)	FS (ft)	Elev (ft)		
BM	3.62	103.62		100.00		
HP1			3.62	100.00		
HP2			3.62	100.00		
HP3			3.45	100.17		
TP						
HP3	4.10	104.27				
HP2			4.25	100.02		
HP1			4.25	100.02		
BM			4.25	100.02		

Comment:

(2) Water Surface Elevation (WSE) Survey

TR	River Station		HI (ft)	FS (ft)	Rod (ft)	WSE (ft)	Ave WSE (ft)	Q (cfs)
	L/R bank	Ave						
1-L	0	0	100.85	9.62	0.00	91.23	91.25	8.1
1-R	0	0		9.59	0.00	91.26		
2-L	29.9	15	100.85	9.57	0.00	91.28	91.29	8.5
2-R	0	0		9.55	0.00	91.30		
3-L	88.9	95.3	100.84	9.48	0.00	91.36	91.36	
3-R	101.7			9.48	0.00	91.36		

Note: WSE slope = 0.121% Ave Q= 8.3

(2) Water Surface Elevation (WSE) Survey

TR	River Station		HI (ft)	FS (ft)	Rod (ft)	WSE (ft)	Ave WSE (ft)	Q (cfs)
	L/R bank	Ave						
1-L	0	0	104.97	13.23	0.00	91.74	91.77	47.3
1-R	0	0		13.17	0.00	91.80		
2-L	29.9	15	104.97	13.20	0.00	91.77	91.78	46.4
2-R	0	0		13.19	0.00	91.78		
3-L	88.9	95.3	104.97	13.04	0.00	91.93	91.92	43.5
3-R	101.7			13.06	0.00	91.91		

Note: WSE slope = 0.157% Ave Q= 45.7

(2) Water Surface Elevation (WSE) Survey

TR	River Station		HI (ft)	FS (ft)	Rod (ft)	WSE (ft)	Ave WSE (ft)	Q (cfs)
	L/R bank	Ave						
1-L	0	0	104.27	10.68	0.00	93.59	93.63	
1-R	0	0		10.60	0.00	93.67		
2-L	29.9	15	104.27	10.49	0.00	93.78	93.76	300.3
2-R	0	0		10.53	0.00	93.74		
3-L	88.9	95.3	104.27	10.42	0.00	93.85	93.80	
3-R	101.7			10.52	0.00	93.75		

Note: WSE slope = 0.178% Ave Q= 300.3

(3) Meter and propeller ID for Velocity Correction

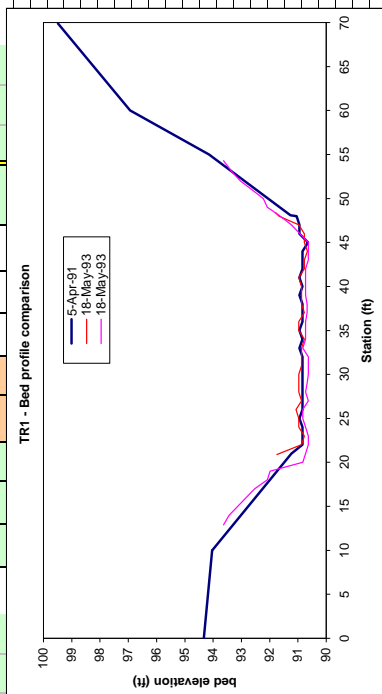
Meter ID: NA
Propeller ID: NA

(3) Meter and propeller ID for Velocity Correction

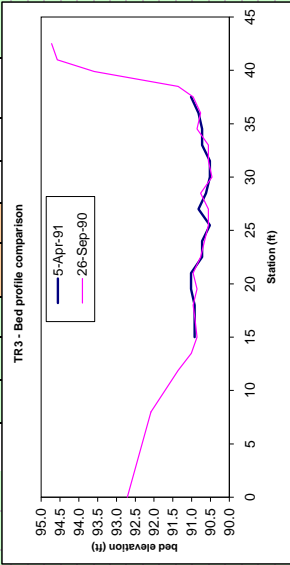
Meter ID: NA
Propeller ID: NA

(3) Meter and propeller ID for Velocity Correction

Meter ID: NA
Propeller ID: NA

[illegible]

Stream: SF Sprague River			26-Sep-90										5-Apr-91										18-May-93															
Site: 655	Transect: 3	Habitat: Run	Survey	HI	Q	Sta (ft)	FS (ft)	Ground (ft)	Depth (ft)	V _{avg} (ft/s)	NV _{avg} (ft/s)	NV _{max} Ave	Angle (deg)	q (cfs)	substrate	Sta (ft)	FS (ft)	Ground (ft)	Depth (ft)	V _{avg} (ft/s)	NV _{avg} (ft/s)	NV _{max} Ave	Angle (deg)	q (cfs)	substrate	Sta (ft)	FS (ft)	Ground (ft)	Depth (ft)	V _{avg} (ft/s)	NV _{avg} (ft/s)	NV _{max} Ave	Angle (deg)	q (cfs)	substrate			



Run	MID										TRANSECT 1
IOC	1101100000001000101000										
QARD	5.0										
QARD	8.3										
QARD	10.0										
QARD	15.0										
QARD	20.0										
QARD	25.0										
QARD	30.0										
QARD	35.0										
QARD	40.0										
QARD	45.2										
QARD	50.0										
QARD	60.0										
QARD	70.0										
QARD	80.0										
QARD	90.0										
QARD	100.0										
QARD	110.0										
QARD	120.0										
QARD	130.0										
QARD	140.0										
QARD	150.0										
QARD	160.0										
QARD	170.0										
QARD	180.0										
QARD	200.0										
QARD	220.0										
QARD	240.0										
QARD	260.0										
QARD	280.0										
QARD	300.3										
XSEC	0.0	0.0	1.0	90.95	0.00168						
	0.0	0.094.33	10.094.03	20.991.73	22.090.86	23.090.76	24.090.96				
	0.0	25.090.96	26.091.06	27.090.86	28.090.96	29.090.96	30.090.96				
	0.0	31.090.86	32.090.86	33.090.86	34.090.76	35.090.96	36.090.96				
	0.0	37.090.76	38.090.86	39.090.86	40.090.86	41.090.96	42.090.76				
	0.0	43.090.76	44.090.66	45.090.76	46.090.76	47.090.96	48.091.66				
	0.0	48.491.79	55.094.14	60.096.94	69.999.49						
NS	0.0	1.1	1.1	0.07	2.2	2.6	2.6	2.6			
NS	0.0	2.6	2.6		2.6	2.6	2.6	2.6			
NS	0.0	2.6	2.6		2.6	2.6	2.6	2.6			
NS	0.0	2.6	4.6		4.6	4.6	4.6	4.6			
NS	0.0	2.4	2.4		2.4	2.4	2.4	.018	2.4		
NS	0.0	.02	2.2	2.1	1.2	1.2					
CAL1	0.0	91.76	45.2								
VEL1	0.0	0.001	0.81	0.94	1.54	0.84	2.16	2.25	1.78	1.97	2.33
VEL1	0.0	2.15	1.80	1.80	2.37	2.21	2.40	2.23	1.99	1.95	2.61
VEL1	0.0	2.77	2.61	2.67	2.17	1.81	0.80	0.00			
CAL2	0.0	91.25	8.3								
VEL2	0.0										
VEL2	0.0										
VEL2	0.0										
CAL3	0.0	93.63	300.3								
VEL3	0.0										
VEL3	0.0										
VEL3	0.0										
ENDJ											

Run	MID										TRANSECT 2	
IOC	1101100100001000101000											
QARD	5.0											
QARD	8.3											
QARD	10.0											
QARD	15.0											
QARD	20.0											
QARD	25.0											
QARD	30.0											
QARD	35.0											
QARD	40.0											
QARD	45.2											
QARD	50.0											
QARD	60.0											
QARD	70.0											
QARD	80.0											
QARD	90.0											
QARD	100.0											
QARD	110.0											
QARD	120.0											
QARD	130.0											
QARD	140.0											
QARD	150.0											
QARD	160.0											
QARD	170.0											
QARD	180.0											
QARD	200.0											
QARD	220.0											
QARD	240.0											
QARD	260.0											
QARD	280.0											
QARD	300.3											
XSEC	0.0	0.0	1.0	90.99	0.00168							
	0.0	0.094.15	10.093.36	16.191.76	17.491.07	19.091.07	20.590.77					
	0.0	22.090.77	23.590.77	25.090.67	26.590.87	28.090.77	29.590.87					
	0.0	31.090.77	32.590.57	34.090.87	35.590.77	37.090.77	38.590.77					
	0.0	40.090.77	41.590.67	43.090.67	44.590.97	46.091.37	46.791.77					
	0.0	49.093.90	57.095.72	70.098.28	78.199.37							
NS	0.0	1.1	.07	1.1	.05	2.2	2.5	.027	6.2	6.2		
NS	0.0	6.2		6.2		6.2	6.2		6.2	6.2		
NS	0.0	6.2		2.6	.065	2.6	2.4		2.4	2.4		
NS	0.0	2.4		2.4		2.4	2.2	.12	2.2	.15	2.2	
NS	0.0	1.1		1.1		2.2	2.2					
WSL	0.0	91.19		91.28		91.31	91.40		91.49		91.56	
WSL	0.0	91.64		91.70		91.76	91.82		91.88		91.98	
WSL	0.0	92.09		92.18		92.27	92.35		92.43		92.52	
WSL	0.0	92.60		92.67		92.74	92.81		92.88		92.95	
WSL	0.0	93.07		93.20		93.32	93.43		93.55		93.66	
CAL1	0.0	91.77		45.2								
VEL1	0.0		0.001	1.60	2.20	1.59	1.75	1.90	1.15	1.90	2.00	1.98
VEL1	0.0	1.46	1.76	0.44	1.86	1.72	2.04	1.82	1.12	1.60	0.940.0010.001	
VEL1	0.0											
CAL2	0.0	91.29		8.3								
VEL2	0.0											
VEL2	0.0											
VEL2	0.0											
CAL3	0.0	93.76		300.3								
VEL3	0.0											
VEL3	0.0											
VEL3	0.0											
ENDJ												

Run	MID										TRANSECT 3
IOC	1101100100001000101000										
QARD	5.0										
QARD	8.3										
QARD	10.0										
QARD	15.0										
QARD	20.0										
QARD	25.0										
QARD	30.0										
QARD	35.0										
QARD	40.0										
QARD	45.2										
QARD	50.0										
QARD	60.0										
QARD	70.0										
QARD	80.0										
QARD	90.0										
QARD	100.0										
QARD	110.0										
QARD	120.0										
QARD	130.0										
QARD	140.0										
QARD	150.0										
QARD	160.0										
QARD	170.0										
QARD	180.0										
QARD	200.0										
QARD	220.0										
QARD	240.0										
QARD	260.0										
QARD	280.0										
QARD	300.3										
XSEC	0.0	0.0	1.0	90.99	0.00168						
	0.0	0.092.71	8.092.08	8.291.93	10.091.62	11.991.32	13.591.12				
	0.0	15.090.92	16.590.92	18.090.92	19.591.02	21.091.02	22.590.72				
	0.0	24.090.72	25.590.52	27.090.82	28.590.62	30.090.52	31.590.52				
	0.0	33.090.72	34.590.72	36.090.82	37.591.02	38.091.42	39.091.82				
	0.0	39.391.91	42.394.75	42.594.72							
NS	0.0	.1	1.2	.06	1.2	2.2	2.2	9.2	2.6		
NS	0.0		2.6	.065	2.6	6.2	6.2	6.2	6.2		
NS	0.0		6.2		6.2	6.2	6.2	6.2	6.2		
NS	0.0		6.2		6.2	2.2	.08	2.2	.10	2.2	.12
NS	0.0	.16	2.2		1.1	1.1					
WSL	0.0		91.26		91.36	91.39	91.49	91.58	91.66		
WSL	0.0		91.73		91.79	91.86	91.92	91.98	92.08		
WSL	0.0		92.19		92.28	92.37	92.46	92.54	92.62		
WSL	0.0		92.70		92.77	92.85	92.92	92.99	93.06		
WSL	0.0		93.18		93.31	93.43	93.55	93.67	93.78		
CAL1	0.0		91.92		45.2						
VEL1	0.0			0.00	0.50	0.75	0.83	1.47	0.83	1.43	1.66
VEL1	0.0	1.38	1.95	1.73	1.42	1.60	1.76	1.88	1.79	1.46	0.47
VEL1	0.0	0.00									
CAL2	0.0		91.36		8.3						
VEL2	0.0										
VEL2	0.0										
VEL2	0.0										
CAL3	0.0		93.80		300.3						
VEL3	0.0										
VEL3	0.0										
VEL3	0.0										
ENDJ											